

Title (en)
WIND TURBINE HAVING EIGENFREQUENCY MODIFIER

Title (de)
WINDTURBINE MIT EIGENFREQUENZMODIFIKATOR

Title (fr)
ÉOLIENNE DOTÉE D'UN MODIFICATEUR DE FRÉQUENCE PROPRE

Publication
EP 4086459 A1 20221109 (EN)

Application
EP 21172525 A 20210506

Priority
EP 21172525 A 20210506

Abstract (en)
It is provided a wind turbine having a modified eigenfrequency, the wind turbine having a tower including a first tower flange arranged at an upper end portion of a top part of the tower; and, an eigenfrequency modifier including a plurality of weights suspended from the first tower flange by a plurality of rigid supports. It is further provided a method of modifying an eigenfrequency of a wind turbine, the method including modifying the eigenfrequency of the wind turbine by suspending a plurality of weights from a first tower flange arranged at an upper end portion of a top part of a tower of the wind turbine using a plurality of rigid supports.

IPC 8 full level
F03D 80/80 (2016.01)

CPC (source: CN EP US)
F03D 7/02 (2013.01 - CN); **F03D 7/0296** (2013.01 - US); **F03D 13/20** (2016.05 - CN US); **F03D 17/00** (2016.05 - CN); **F03D 80/00** (2016.05 - CN); **F03D 80/80** (2016.05 - EP US); **F16F 7/10** (2013.01 - US); **F05B 2260/96** (2013.01 - EP US); **F05B 2260/964** (2013.01 - EP); **Y02E 10/72** (2013.01 - EP)

Citation (search report)

- [X] WO 2014165370 A1 20141009 - GEN ELECTRIC [US]
- [X] EP 2644886 A2 20131002 - GEN ELECTRIC [US]
- [A] US 2021047998 A1 20210218 - MITSCH FRANZ [DE]
- [A] EP 1008747 A2 20000614 - MITSCH FRANZ [DE]
- [A] EP 2696072 A1 20140212 - WOELFEL BERATENDE INGENIEURE GMBH & CO KG [DE]
- [A] WO 2014040598 A1 20140320 - VESTAS WIND SYS AS [DK]
- [A] WO 2008000265 A1 20080103 - VESTAS WIND SYS AS [DK], et al

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
EP 4086459 A1 20221109; BR 102022007584 A2 20221116; CA 3157853 A1 20221106; CN 115306636 A 20221108; JP 2022173088 A 20221117; US 2022356924 A1 20221110

DOCDB simple family (application)
EP 21172525 A 20210506; BR 102022007584 A 20220420; CA 3157853 A 20220429; CN 202210488876 A 20220506; JP 2022068569 A 20220419; US 202217738135 A 20220506